

Title (en)

Method for generating hydraulic power in an aircraft, use of a hybrid power control unit and drive system

Title (de)

Verfahren zur Erzeugung von Hydraulikleistung in einem Flugzeug, Verwendung einer hybriden Energiesteuerungseinheit und Antriebssystem

Title (fr)

Procédé de production d'énergie hydraulique dans un aéronef, utilisation d'une unité de commande d'énergie hybride et d'un système d'entraînement

Publication

EP 2690007 B1 20160831 (EN)

Application

EP 12178041 A 20120726

Priority

EP 12178041 A 20120726

Abstract (en)

[origin: EP2690007A1] A method for generating hydraulic power in an aircraft (2), the aircraft having a drive system (4) comprising at least one transmission shaft (10, 14, 44, 46) connected to a power control unit (22, 24), the power control unit having an electric motor (36) and a hydraulic displacement machine (34) connected to a differential gear unit (28) for driving a common output shaft (52), the method comprises the steps of switching the hydraulic displacement machine into a pump mode, arresting the output shaft, rotating the electric motor such that the hydraulic displacement machine is driven due to the arrested output shaft and supplying the fluid flow into a hydraulic system (54). A drive system of an aircraft may thereby used for either moving control surfaces or for generating hydraulic power in an aircraft. This hydraulic power may be used to cover hydraulic load peaks during aircraft operation or to power hydraulic devices without the need of additional hydraulic power generation components.

IPC 8 full level

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CPC (source: EP US)

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